

This page tries to collect links about 433 devices that I collected over time

`t=0x00b901a0 [0,0]`

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First, try to decode signals using [rtl-sdr](#) and https://github.com/merbanan/rtl_433 (if it's temperature sensor, and even if it's not you can use -a option to analyze signals)

OOK

- <http://lucsmall.com/2012/04/29/weather-station-hacking-part-2/>
- <http://lucsmall.com/2013/12/19/weather-updates/>
- <https://github.com/lucsmall/BetterWH2>

Simpler and better example using interrupts: <http://forum.arduino.cc/index.php?topic=145341.0>

Prologue temperature sensor

```
dpavlin@x200:/rest/cvs/rtl_433/build$ ./src/rtl_433 -a
Registering protocol[01] Rubicson Temperature Sensor
Registering protocol[02] Prologue Temperature Sensor
Registering protocol[03] Silvercrest Remote Control
Registering protocol[04] ELV EM 1000
Registering protocol[05] ELV WS 2000
Registering protocol[06] Waveman Switch Transmitter
Registering protocol[07] Steffen Switch Transmitter
Registering protocol[08] Acurite 5n1 Weather Station
Found 1 device(s):
  0: Realtek, RTL2838UHIDIR, SN: 00000001
```

```
Using device 0: Terratec T Stick PLUS
usb_claim_interface error -6
Failed to open rtl_sdr device #0.
dpavlin@x200:/rest/cvs/rtl_433/build$ ./src/rtl_433 -a
Registering protocol[01] Rubicson Temperature Sensor
Registering protocol[02] Prologue Temperature Sensor
Registering protocol[03] Silvercrest Remote Control
Registering protocol[04] ELV EM 1000
Registering protocol[05] ELV WS 2000
Registering protocol[06] Waveman Switch Transmitter
Registering protocol[07] Steffen Switch Transmitter
Registering protocol[08] Acurite 5n1 Weather Station
Found 1 device(s):
  0: Realtek, RTL2838UHIDIR, SN: 00000001
```

```
Using device 0: Terratec T Stick PLUS
Found Elonics E4000 tuner
Exact sample rate is: 250000.000414 Hz
Sample rate set to 250000.
Sample rate decimation set to 0. 250000->250000
```

```
Bit detection level set to 10000.
Tuner gain set to Auto.
Reading samples in async mode...
Tuned to 433920000 Hz.
*** signal_start = 2410789, signal_end = 2643271
signal_len = 232482, pulses = 262
Iteration 1. t: 164      min: 156 (169)      max: 173 (93)      delta 725
Iteration 2. t: 162      min: 154 (134)      max: 171 (128)      delta 8
Iteration 3. t: 162      min: 154 (127)      max: 171 (135)      delta 0
Distance coding: Pulse length 162
```

Short distance: 443, long distance: 936, packet distance: 2255

p_limit: 162

```
[00] {38} 17 06 03 64 80 : 00010111 00000110 00000011 01100100 10000000
[01] {36} 5c 18 0d 92 00 : 01011100 00011000 00001101 10010010 00000000
[02] {36} 5c 18 0d 92 00 : 01011100 00011000 00001101 10010010 00000000
[03] {36} 5c 18 0d 92 00 : 01011100 00011000 00001101 10010010 00000000
[04] {36} 5c 18 0d 92 00 : 01011100 00011000 00001101 10010010 00000000
[05] {36} 5c 18 0d 92 00 : 01011100 00011000 00001101 10010010 00000000
[06] {36} 5c 18 0d 92 00 : 01011100 00011000 00001101 10010010 00000000
[07] {0} 00 : 00000000
```

Sensor temperature event:

```
protocol      = Prologue
button        = 0
battery        = Ok
temp          = 21.7
humidity      = 32
channel       = 1
id            = 5
rid           = 193
hrid          = c1
5c 18 0d 92 00
```

RSLR3

Wall socket with RSLR3 protocol:

- <http://www.conrad.hr/Be%26%23382;i%26%23269;ni-ugradbeni-prekida%26%23269;-RSLR3.htm?v>
- [640303-an-01-ml-FUNK_EINBAUSCHALTER_RSLR3_de_en_fr_nl.pdf](http://www.conrad.hr/640303-an-01-ml-FUNK_EINBAUSCHALTER_RSLR3_de_en_fr_nl.pdf)

Some information how to pair it

- <http://forums.ninjablocks.com/index.php?p=/discussion/269/pairing-conrad-rsl-actuators/p1>
- <http://www.mikrocontroller.net/topic/252895>

[2 Bit = '10'] [2 Bit = Tasten 1 bis 4] [2Bit = Ein/Ausschalten] [2 Bit = Wahlschalter 1 bis 4] [24 Bit = "Fernsteuerungs ID"]

```
1.1 AN
10110110110100101011100111000000
1.1 AUS
10111110110100101011100111000000
```

```
1.2 AN
10001110110100101011100111000000
1.2 AUS
10000001110100101011100111000000
```

1.3 AN
10100110110100101011100111000000
1.3 AUS
10101110110100101011100111000000

1.4 AN
10010110110100101011100111000000
1.4 AUS
10011110110100101011100111000000

2.1 AN
10111001110100101011100111000000
2.1 AUS
10110101110100101011100111000000

2.2 AN
10000101110100101011100111000000
2.2 AUS
10001101110100101011100111000000

2.3 AN
10101001110100101011100111000000
2.3 AUS
10100101110100101011100111000000

2.4 AN
10011001110100101011100111000000
2.4 AUS
10010101110100101011100111000000

3.1 AN
10110000110100101011100111000000
3.1 AUS
10111000110100101011100111000000

3.2 AN
10001000110100101011100111000000
3.2 AUS
10000100110100101011100111000000

3.3 AN
10100000110100101011100111000000
3.3 AUS
10101000110100101011100111000000

3.4 AN
10010000110100101011100111000000
3.4 AUS
10011000110100101011100111000000

4.1 AN
10111100110100101011100111000000
4.1 AUS
10110010110100101011100111000000

4.2 AN
10000010110100101011100111000000
4.2 AUS
10001010110100101011100111000000

4.3 AN
10101100110100101011100111000000

4.3 AUS
10100010110100101011100111000000

4.4 AN
10011100110100101011100111000000

4.4 AUS
10010010110100101011100111000000

ALLE AN
10010011110100101011100111000000
ALLE AUS
10100011110100101011100111000000

Kleine Fernbedienung

An
10111001010010000100101011000000
AUS
10110101010010000100101011000000

Power sockets

- http://www.conrad.hr/%26%23268:etverodijelni-komplet-be%26%23382:i%26%23269:nih-prekida%26%23269:an-01-ml-FUNK_SCHALTER_SET_4TEILIG_de_en_fr_nl.pdf
- [640475-an-01-ml-FUNK_SCHALTER_SET_4TEILIG_de_en_fr_nl.pdf](http://www.conrad.hr/%26%23268:etverodijelni-komplet-be%26%23382:i%26%23269:nih-prekida%26%23269:an-01-ml-FUNK_SCHALTER_SET_4TEILIG_de_en_fr_nl.pdf)

Send/receive using USB sound card

- http://rurandom.org/justintime/index.php?title=Cheapest_ever_433_Mhz_transceiver_for_PC_s
- https://www.tablix.org/~avian/blog/archives/2011/10/receiver_module_follow_up/